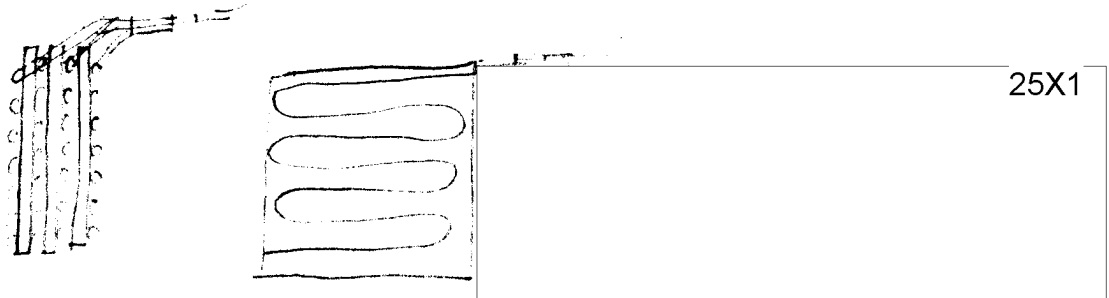


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SECRET

9 May 1961

MEMORANDUM FOR THE RECORD**SUBJECT: Tests of Mild Detonating Fuse, Five Grains per Foot**

1. On 5 May 1961, tests were conducted to determine initiation and propagation characteristics of five-grain lead-covered detonating cord. Lengths of cord were looped back and forth over the surface of $\frac{1}{2}$ " plywood boards, approximately 12"x12" square. In all, four boards were used. These boards were fixed as shown below:



2. Four separate lengths of detonating cord were used. One end of each length was placed in a No. 6 electric empty cap shell with the closed end cut off. The shell was crimped to the cords and a No. 6 Non-electric cap slipped in the open end of the shell. This was taped in place. Detonation was high order and all boards noticeably grooved.

3. By removing the woven wire outer layer of the cord, it is possible to stick seven individual lengths into a No. 6 electric cap shell.

4. Twenty samples were made up consisting of 7 one-foot lengths in each sample. Ten samples were fitted in No. 6 shells bottoming on the inside closed end of the shell. Ten samples were placed with the cord one inch inside the shell which had the closed end cut off. All were crimped in place, but the crimper was too small for the No. 6 electric cap shell.

5. Into the open end shells a No. 6 non-electric cap was butted against the closed end of the closed shell and taped into place.

6. After firing all twenty charges two undetonated sections of cord were found. It is believed that these two pieces came from one of the closed end cap shells.

7. Further tests of this material will be conducted at a later date.

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